

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5041-00
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California Type Evaluation Program
Certificate of Approval
for Wholesale Devices

For:

Wholesale Liquid Measuring Devices
Electronic Flow Computer
Model: 1010
Capacity: See Below

Submitted by:

Contrec - USA, LLC
3951 Lorna Road
Birmingham, AL 35244
Tel: (205) 685-3000
Fax: (205) 685-3007
Contact: Jeff Gaskill

Standard Features and Options

- Category 1 sealing (see Sealing on Page 2)
- One line 16 alphanumeric character (9mm high) backlit display LCD
- Five digit (10mm high) backlit display LCD with automatic ranging
- Flameproof heavy duty actuators with 11 numeric and 7 function keys
- Flameproof Nema 4X enclosure
- Batch control
- RS232/RS422 communication ports
- Electronic temperature compensation
- Single or multi-point linearity calibration

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: July 19, 2000

Mike Cleary, Director

Contrec - USA, LLC
Wholesale Liquid Measuring Devices
Model: 1010

Application: The device is intended for use as an indicating element and controller for loading rack metering applications. May be used with approved, compatible wholesale meters dispensing petroleum products.

Identification: The required identification badge is located on the exterior case housing.

Sealing: The Model 1010 electronic flow computer housing cover has holes drilled in the bolt heads for applying a security seal. The calibration/configuration button on the front panel has a hole drilled for applying a security seal to prevent access to the calibration/configuration parameters.

Operation: The indicated values are displayed or recorded in units of volume. The flow computer can show flow rate and accumulated total. The Model 1010 will automatically return to the delivery display after viewing the supplemental information.

Test Conditions: The batch controller was evaluated in the laboratory to analyze the programming features and functions. The device was installed in the field and tested. The emphasis of this evaluation was on device design, operation, performance, permanence, and interaction with accessory equipment. The batch controller was retested 30 days later.

The results of the evaluation indicate the device complies with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2000 Edition.

Tested By: Dan Reiswig (CA), Charles Nelson (CA), Leif McClees (NV)